

OM of: US-09-823-373-5 to: GenEmbl.* out_format : pfs
Date: Sep 18, 2002 3:27 PM
About: Results were produced by the GenCore software, version 4.5,
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Command line parameters:

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-O/Cg2_1/USPTO.spool/US09823373/runat_17092002.085948.23516/app_query.fasta_1.431
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Search information block:

Query: US-09-823-373-5

Query length: 369

Database: GenEmbl.*

Database sequences: 1797656

Database length: 187333701

Search time (sec): 1922.480000

score_list:

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gb_ba:RERLAL	+	995.50	1519.28	2.9e-76	D67026 Rhodococcus rhodochrous
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gb_ba:RERLAL	+	992.50	1521.96	2.1e-76	AX235749 Sequence 1 from Patent
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gb_ba:RERLAL	+	776.00	1190.56	5.9e-58	AX189646 Sequence 3 from Patent
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gb_ba:RERLAL	+	676.00	1030.39	5.0e-49	AX008753 Sequence 2 from Patent
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seq_documentation_block:

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DEFINITION Rhodococcus rhodochrous aliphatic nitrilase gene, complete cds.
ACCESSION D12583
VERSION D12583.1 GI:216931
KEYWORDS aliphatic nitrilase.
SOURCE Rhodococcus rhodochrous (strain:K22) DNA.
ORGANISM Rhodococcus rhodochrous
Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus.

REFERENCE

1 (bases 1 to 1653)
Kobayashi, M.

AUTHORS

Direct Submission

JOURNAL

Submitted (07-JUL-1992) Michihiko Kobayashi, Kyoto University,
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(Tel:075-753-6114, Fax:075-753-6128)

REFERENCE

2 (bases 1 to 1653)
Kobayashi, M., Yanaka, N., Nagasawa, T. and Yamada, H.

AUTHORS

Primary structure of an aliphatic nitrile-degrading enzyme,
aliphatic nitrilase, from Rhodococcus rhodochrous K22 and
expression of its gene and identification of its active site
residue

JOURNAL

Biochemistry 31 (37), 9000-9007 (1992)

MEDLINE

93003039

COMMENT

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Location/Qualifiers

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BASE COUNT

ORIGIN

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Ratio: 4.143 Gaps: 3
Percent Similarity: 89.160 Percent Identity: 71.274

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US-09-823-373-5 x RERALLN

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 35 lualAlaGlnLysGlyAlaSerLeuIleAlaPheProGluValPheIle 51
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seq_name: gb_ba:RERNTL

seq_documentation_block:

LOCUS RERNTL 1286 bp DNA linear BCT 03-FEB-1999
 DEFINITION R. rhodochrous DNA for nitrilase, complete cds.
 ACCESSION D11425
 VERSION D11425.1 GI:216933
 KEYWORDS nitrilase.
 SOURCE Rhodococcus rhodochrous (strain:J1) DNA.
 ORGANISM Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
 Actinomycetales; Corynebacterineae; Nocardiaceae; Rhodococcus.
 REFERENCE 1 (bases 1 to 1286)
 AUTHORS Kobayashi, M.
 TITLE Direct Submission
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REFERENCE 2 (bases 1 to 1286)
 AUTHORS Kobayashi, M., Kameda, H., Yanaka, N., Nagasawa, T. and Yamada, H.
 TITLE Nitrilase from Rhodococcus rhodochrous J1. Sequencing and
 overexpression of the gene and identification of an essential
 cysteine residue
 J. Biol. Chem. 267 (29), 20746-20751 (1992)
 MEDLINE 93015976
 COMMENT Submitted (10-Jun-1992) to DDBJ by:
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 Fax: 075-753-6128.

FEATURES source

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CDS